AFT Assombly ONLY 175963*

Page 1

Work Ord	er ID	75963
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November-02-1,1' 10:42:10 AM

*.	3391-025		# Accept	*N900	040	100*	Setup Sta	rt *NS1*
Revision ID: Item Name: A	ft.Tube Assembly						Sto	*NS2*
Required Date: 16	2/11/2011 Start Qty: 1.00 6/11/2011 Req'd Qty: 1.00	*1 *1		Cust Item I Customer:	D:			in the second se
Reference:				·.		<u> </u>	Run Sta	rt de la co
	Process Plan: M.L.J	. ,	109 Tooling:		ite:		Sto	"NR()":
. (QC:	Date:	SPC (Y/N):	Da	ite:	·		*NR2*
Sequence ID/ Work Center ID	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Acce Code Qty	pt Reject Qty	Reject Insp. Number Stamp
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*110 *110*	QC2- Inspect parts off	machine FAI/FAIB	0.00	Section 1		1	l Ø	
QC Quality Control	Memo	***	0.00			 1	P	
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Quality Control	Nemo		and the same	ŧ .				

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W/O:	W/O: WORK ORDER CHANGES								
DATE	STEP	PRO	PROCEDURE CHANGE					Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Ca	egory.	NCR: Yes	No DO	Δ.	Date:	
					A: N/C Closed: Date:				
NCR:				DER NON-CONFORMA					
D.4.		Description of NC	Corrective Action Section		Verific	cation	Approval	Approval	
DATE	STEP Description of NC Section A		Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	Sign & Sec		Chief Eng	QC Inspector
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Work Order ID 75963 *75963* Page 2 November-02-11 10:42:10 AM Item ID: D3391-025 Accept *N900040100* Setup Start **Revision ID: Item Name:** Aft Tube Assembly **Start Date:** 02/11/2011 Start Qty: 1.00 **Cust Item ID: Required Date:** 16/11/2011 Req'd Qty: 1.00 **Customer:** Reference: Run **Approvals:** Process Plan: Date: Tooling: Date: Stop Date: SPC (Y/N): Date: Sequence ID/ **Operation** Set Up/ Tool ID Reject Tool # Plan Reject Accept Insp. Work Center ID Description **Run Hours** Code Qty Number Stamp Oty 120 0.00 HAAS CNC VERTICAL MACHINING #1 *120* 36 Pa 11/1/21 1 \$ HAAS 1 0.00 Memo HAAS CNC vertical machine #1 1-Machine as per Folio FA 599 Rev: 🗚 & Dwg D3391 Rev: 🏅 130 QC2- Inspect parts off machine FAI/FAIB 0.00 Whilze *120* 0.00 Memo Quality Control 140 QC8- Inspect parts - second check 0.00 Pa 11.11.21

0.00

Memo

140

Quality Control

QC

W/O:	<u>. </u>			WO	RK ORDER C	HANGES					
DATE	STEP		PROC	EDURE CHAN	IGE	•	Ву	Date	Qty	Approval, Chief Eng // Prod Mgr	Approval QC Inspector
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Part No		PAR	#:	Fault Categ	ory:	NC	R: Yes	No DQA	\:	_ Date:	:
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NCR:	100		WC	ORK ORDE	R NON-CONF	ORMANCE	(NCR	l)			
DATE	STEP	Description of I	NC		Corrective Action	Section B		Verific	ation	Approval	Approval
DAIL) JILF	Section A		Initial Chief Eng	Action Description Chief Eng	iption	Sign*& Date	Section	n C	Chief Eng	QC Inspector
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Quality Control

75963

Page 3

November-02-1	1 10:42:10 A	1M											
Item ID: Revision ID:	D3391-025			Accept	*N900	040	100)*	Setup	Start	*N	S1 [*]	*
Item Name:	Aft Tube Ass	embly		ઝ .						Stop	*N	S2*	k
Start Date:	02/11/2011	Start Qty: 1.00	*1*		Cust Item I	D:						,	
Required Date:	16/11/2011	Req'd Qty: 1.00	*1*		Customer:								
Reference:			-										
Approvals:	Process Pla	an:	Date:	Tooling:	Da	ıte:			Run	Start	*N	R1*	*
	QC:		Date:	SPC (Y/N):	Da	ıte:				Stop	*N	R2 ³	k
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Iumber	Insp. Stamp)
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Skidtubes	•		OT HOLE) aft cap hole	s per Dwg D3391 using DT880	03								
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160		•		0.00									
160	•	BENDING MACHINE -	SKIDTUBES					75		() -		72	/_
CNC Bend 1		Memo		0.00									5
CNC Delta 100 Bend	der	Form as per	Dwg D3391 Using Ben	d Prog 3391025							ť,		
*170		QC5- Inspect part comple	eteness to step on W/O	0.00			1	1		//-/	11-2	7	
QC		Memo	7	ž ² 0.00				 			<u>, </u>		_

Memo

W/O:		WORK ORDER CHANGES							
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	Resolution: _	<u> </u>	Disposition:	_ QA: N/C Closed:	Date: _	

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DATE STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector	
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DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No: _		_ PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
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		Description of NC		Corrective Action Section B		Verification	Ammrayal	Approval QC Inspector
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Work Order ID 75963 November-02-11 10:42:10 AM				*759	963*							Page
Item ID: Revision ID:	D3391-025			Accept	*N900	040	100	N *	Setup	Start	*N	S1*
Item Name:	Aft Tube Ass	embly								Stop	*N	S2*
Start Date: Required Date: Reference:	02/11/2011: 16/11/2011	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item Customer:							
Approvals:	Process Pla	an:	Date:	Tooling:	D	ate:			Run	Start	*N	R1*
••				_	D	ate:				Stop	*N	R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rejo Qty		Reject Number	Insp. Stamp
190 *400*		QC5- Inspect part comp	eteness to step on W/O	0.00								
190 QC Quality Control		Memo		0.00	117170				-			
200		Chemical Conversion Co	oat per QSI005 4.1	0.00						,	/	
200 HandFinish Hand Finishing		Memo		0.00				_0	SF.	1/11	1 ff X	-12-20

210

210

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

2 11.12.20

Dart Aerospace	Ltd
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W/O:			WC	RK ORDER CHANG	ES				•
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	4 :	Date: _	
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NCR:			WORK ORDE	R NON-CONFORMA	NCE (NC	R)		****	
DATE	STEP	Description of NC		Corrective Action Section		Verific	ation	Approval	Approval
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Work Order ID 75963 *75963* Page 6 November-02-11 10:42:10 AM Item ID: D3391-025 Accept *N900040100* Setup Start **Revision ID:** Stop **Item Name:** Aft Tube Assembly **Start Date:** 02/11/2011 Start Oty: 1.00 **Cust Item ID: Reg'd Oty:** 1.00 **Required Date: 16/11/2011 Customer:** Reference: Run Start **Approvals:** Process Plan: ____ Date: Tooling: Date: Stop SPC (Y/N): Date: Date: Sequence ID/ Operation Set Up/ Reject Tool ID Tool # Plan Accept Reject Insp. **Work Center ID** Description Number Stamp **Run Hours** Code **Otv** Oty 220 0.00 Skidtubes *220* 85 11-12-21 Skidtubes 0.00 Memo Skidtubes Instal spacers as per dwg D3391 A/R Magnabond 6398 Batch: exp. date: 17 02 cure time 12hrs as per QSI0015 230 OC5- Inspect part completeness to step on W/O 5 W12/22 *230* QC Memo Quality Control

235

Pressure Wash per QSI005 4.3

0.00

735 HandFinish

Memo

0.00

Hand Finishing

AND REALODINE AS PER PAR09-043

St/M/ 11-12-22

W/O:			W	ES								
DATE	STEP	PR	OCEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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			W									
Part No		PAR #:	Fault Cate	gory:	NCR: Yes No DQA: Date:							
	Re	esolution:	Disposition	n:	QA:	N/C Clo	sed:		Date:			
NCR:		,	WORK ORD	ER NON-CONFORMA	ANCE	(NCR)					
		Description of NC	Description of Nt.			Section B Ver			Approval	Approval		
DATE	STEP	Section A	Initial Action Descrip Chief Eng Chief Eng		:	Sign & Date	Verification Section C		Chief Eng	QC Inspector		
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Work Orde		1		*759	963*					Page 7
Item ID: Revision ID: Item Name:	D3391-025 Aft Tube Asse	•		Accept	*N9000	40100)*	Setup	Start Stop	*NS1* *NS2*
Start Date: Required Date: Reference:	02/11/2011	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item ID: Customer:					
Approvals:	Process Pla	n:	Date:	Tooling:	Date:]	Run	Start	*NR1*
	QC:		Date:	SPC (Y/N):	Date:				Stop	*NR2*
Sequence ID/ Work Center II 240 *240* Powdercoat Powder Coating 250 *250*	· wy	Operation Description White Gloss(Ref:4.3.5.1) Memo START TIM OVEN TEM FINISH TIM QC3- Inspect Part Finish	16: 12 - 14- IPERATURE: 36 16: 14 15	Set Up/ Run Hours 0.00 0.00 0.00	Tool ID T	ool # Plan Code	Accept Qty	Reje Qty		eject Insp. fumber Stamp W/12/2
QC Quality Control		Memo	÷	0.00				Ψ		11/12/27
260 *260* HandFinish		HandFinishing Memo		0.00		' %	1 : 000	4	W	ulult
Hand Finishing		2-Install inse 2-Install Aft A/R Sikafle	rts as per Dwg D3391 Cap as per Dwg D3391 x-241/-291 //(((4) c expiry date:	443					•	

W/O:		WORK ORDER CHANGES												
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
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Part No	:	PAR #:	Fault Cate	egory:	NCR: Yes	No DQA:		_ Date: _						
	R	esolution:	Disposition	on:	_ QA: N/C Cld	osed:		Date:						
NCR:			WORK ORE	DER NON-CONFORMA	ANCE (NCR)								
		Description of NC	ion B	Verifica	tion	Approval	Approval							
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		Section C		QC Inspector					
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Work Order ID 75963 *75963* Page 8 November-02-11 10:42:10 AM D3391-025 Accept Item ID: *N900040100* Setup Start **Revision ID:** Aft Tube Assembly Item Name: 02/11/2011 Start Qty: 1.00 **Start Date: Cust Item ID: Required Date:** 16/11/2011 Req'd Qty: 1.00 **Customer:** Reference: Start Run Tooling: Approvals: Process Plan: Date: Date: Stop OC: Date: SPC (Y/N): Date: Sequence ID/ Operation **Tool ID** Tool # Plan Set Up/ Accept Reject Reject Insp. Number Qty **Work Center ID Description Run Hours** Code **Qty** Stamp 270 QC5- Inspect part completeness to step on W/O 5000 S 11/12/23 *270* QC Memo Quality Control 280 Identify as per dwg & Stock Location:_____ 0.00 *280* Packaging 0.00 Memo Packaging N12/230 290 QC21- Final Inspection - Work Order Release 0.00 *290* QC 0.00 Memo Quality Control

Dart Ae	rospace L	td						,
W/O:			WC	RK ORDER CHANGI	ES			
DATE	STEP	PRO	OCEDURE CHAI	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
								
Part No	:	PAR #:	Fault Categ	jory:	NCR: Yes	No DQA:	Date: _	
	Resc	olution:	Disposition) :	QA: N/C CI	osed:	Date: _	
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DATE	STEP	Description of NC		Corrective Action Section		- Verification	Approval	Approval
	0,2,	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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Section A Chief Eng Chief

Picklist Print

November-02-11 10:42:14 AM

Work Order ID: 75963

75963

Parent Item:

D3391-025

D3391-025

Parent Item Name: Aft Tube Assembly

Start Date: 02/11/2011

Required Date: 16/11/2011

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev B 06-02-07

ECN773 dwg rev. D EC

IPP Rev:C 06-03-28

Update Manuf. Instructions JLM EC

07.03.20 IPP rev D

revF dwg

07.11.07 IPP rev E

rev G dwg ecn 1053p EC verified by: DD

ECN 1056 DD verified by: EC

IPP Rev:F 07-11-13

IPP Rev:G 08-09-10 revH as per dwg DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6014-090		Manufactured	No			100	Each	23.0000	1	1			
*D6014-09 ALUMINUM EXTRUSION									**				
		•		Location		Loc	<u>Otv</u>	Loc Code					
				LG	66179		23 23			1	-	(ulat.
D3670-4-200		Manufactured	No	·		230	Each	128.0000	4	4	- Mi	m.V	1/////04
D3670-4-	-200								**	RI	·	. ~ (7	2-73

SPACER

Location	Loc Qty	Loc Code	
LG	36		
71850	36		
LG001	92		
72851	92		x4

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W/O:			WC	ORK ORDER CHANGE	S				•
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A :	_ Date: _	
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NCR:			WORK ORDI	ER NON-CONFORMA	NCE (NCR	()			
DATE	STEP	Description of NC	NC Corrective Action Section B			Verific	ation	Approval	Approval
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November-02-11 10:42:14 AM

Work Order ID: 75963

75963

Parent Item:

D3391-025

D3391-025 Parent Item Name: Aft Tube Assembly

No

No

Start Date: 02/11/2011

Required Date: 16/11/2011

Start Qty: 1.00

Required Qty: 1.00

D2646

Manufactured

Manufactured

270

Each

73.0000

1373825 (x1) JU 11/0/22

D2646

Aft Cap

Locatio	<u>n</u>	Loc C	<u>)ty</u>	Loc Code		
FP002			56			
	73294		56			
FP004			5			
	68280		5			
FP006			5			
	62678		5			
FP-4			3			
	70945		1			<u> </u>
	71070		2			
fp5			4			
	71038		4			
		270	Each	108.0000	1	1

Loc Code

D3537-1

04095-649

Location	Loc Qty
FP002	101
74436	70
74597	31
FP017	7
69817	5

70686

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W/O:			WC	RK ORDER CHANG	GES					•
DATE	STEP	PROCEDURE CHANGE By Date Q				Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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		-								
Part No	:	PAR #:	Fault Cate	ory:	NCR	: Yes 1	lo DQ	\:	_ Date: _	
	Res	solution:	Disposition	:	QA:	N/C Clo	sed:		Date:	
NCR:			WORK ORDE	R NON-CONFORM	ANCE	(NCR))			
DATE	STEP	Description of NC Section A	Initial	Corrective Action Sec Action Description	ction B	Sign &	Verific Section		Approval Chief Eng	Approval QC Inspector
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November-02-11 10:42:14 AM

Work Order ID: 75963 *75963* *D3391-025* Parent Item: D3391-025 Parent Item Name: Aft Tube Assembly Start Date: 02/11/2011 **Required Date: 16/11/2011** Start Qty: 1.00 Required Oty: 1.00 D3537-7 270 Each 9.0000 Manufactured No B77435(41) Mulled 27 *D3537-7* Location Loc Qty Loc Code

D4095-047 FΡ P11122 71689 FP017 71689 D3553-1 270 Each 37.0000 Manufactured No DIA **

NA Pu.12.22

D3553-3 Manufactured No

D3553-3
NA Mul. 12

Location	<u>Lo</u>	c Oty	Loc Code			
FP013		37				
56568		2				·—·
73155		35				
	270	Each	22.0000	1	1	
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Locatio	<u>n</u>	Loc Qty	Loc Code	
FP		20		
	31631	20		
FP013		. 2		
	53480	2		

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DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cated	jory:	_ NCR: Yes	No DQA:		_ Date: _	
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NCR:			WORK ORDE	R NON-CONFORMA	ANCE (NCF	<u>(</u>)			
DATE	STEP	Description of NC		Corrective Action Section		Verifica	tion	Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		Chief Eng	QC Inspector
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W/O:			W	ORK ORDER CHANG	ES				•
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Part No	•	PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQA	\:	Date:	
	Re	esolution:	Dispositio	n:	_ QA: N/C CI	osed:		Date: _	
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DATE	STEP	Description of NC		Corrective Action Section		Verific	ation	Approval	Approval
	O.L.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section	on C	Chief Eng	QC Inspector
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Picklist Print Page 5 November-02-11 10:42:14 AM Work Order ID: 75963 *75963* Parent Item: D3391-025 *D3391-025* Parent Item Name: Aft Tube Assembly Start Date: 02/11/2011 **Required Date: 16/11/2011** Required Qty: 1.00 Start Oty: 1.00 AN3C4A No 270 Each 2,385.000 Purchased *AN3C4A* ** Location Loc Oty Loc Code ST350 2385 117313 2 117688 5 117872 22 118112 16 2 118451 118706 364 X6 974 118838 119328 1000 AN3C5A Purchased No 270 Each 1,131.000 *AN3C5A* ** M 119749 (xu) A walalaz Location Loc Qty Loc Code FP-A 7 115835 7 ST350 1124 116419 28 117343 17 117764 166 117872 2 118451 411 119127 500 AN960C10L NAS1149C0332 Purchased No 270 Each 0.0000 10 10

November-02-11 10:42:14 AM

*AN960C101 *

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Shop Packet Print

Page 5

M119736(410) Muliel 22

Dart Aerospac	e Ltd	
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W/O:			V	VORK ORDER CHANGI	ES				,
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Part No		PAR #:	Fault Ca	tegory:	NCR: Yes	No DQ	A:	Date:	·
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DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign &		cation ion C	Approval Chief Eng	Approval QC inspector
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DART AEROSPACE LTD	Work Order: 75963
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Description: Float Skidtube (412)	Part Number: D3391-3
Inspection Dwg: D3391 Rev: H	Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of inspection	Comments
		La	the Section	n		
14.000	+/-0.010	14.00			tane	4m91, 1-05
3.500	+/-0.010	3.500	V		vern	ourc-08
88.93	+/-0.030	8.900			talle	mon L-02
Ø3.200	+/-0.010	3.202	[vern	CNC-08
88.93	+/-0.030	86.900			tape	anan. L-02
Ø3.750	+/-0.010	3.750			vern	cwc-ox
30° x 160" chamfer	+/-0.010	36° × 160	V		1 (
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Measured by: pym V

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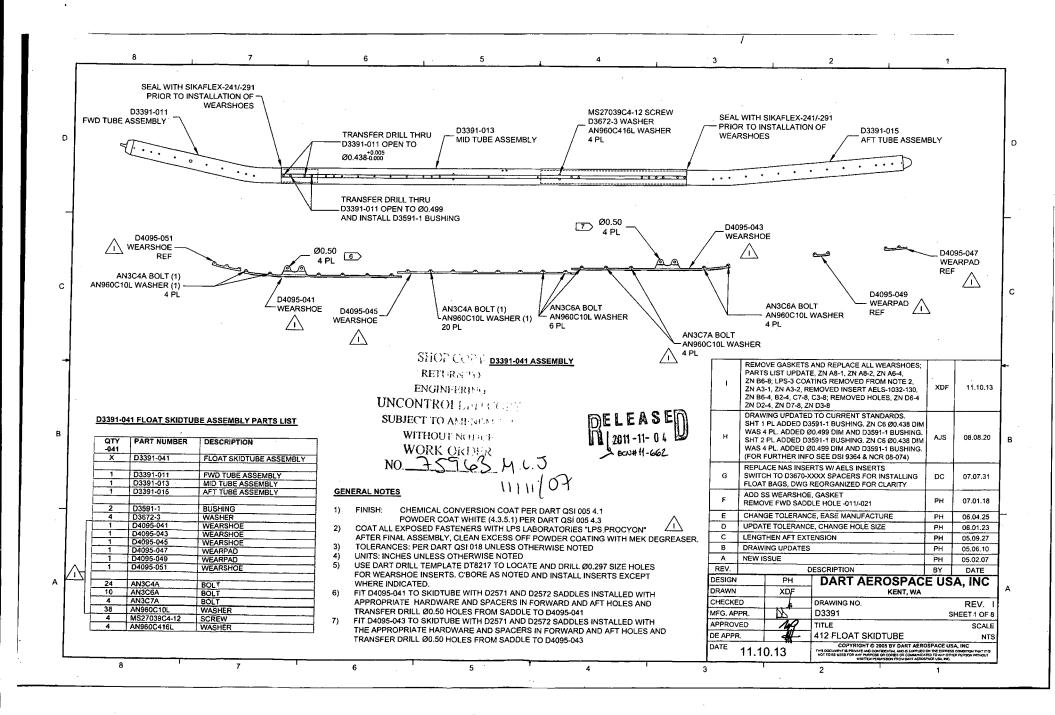
		НА	AS Section		
1,526	+0.000/-0.030	1.508	- I	Vern	BG 06
7.500	+/-0.010	7.500	~		
27.750	+/-0.010	77.750	~		
31.750	+/-0.010	31.750	U		
35.250	+/-0.010	75.250	V		
3.300	+/-0.010	3.305	U		
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3.520	+/-0.010	3.525	~		
0.687	+0.010/-0.000	.690	~		
R0.062	+/-0.010	-062	-		
Ø0.484	+0.005/-0.001	.484	~		

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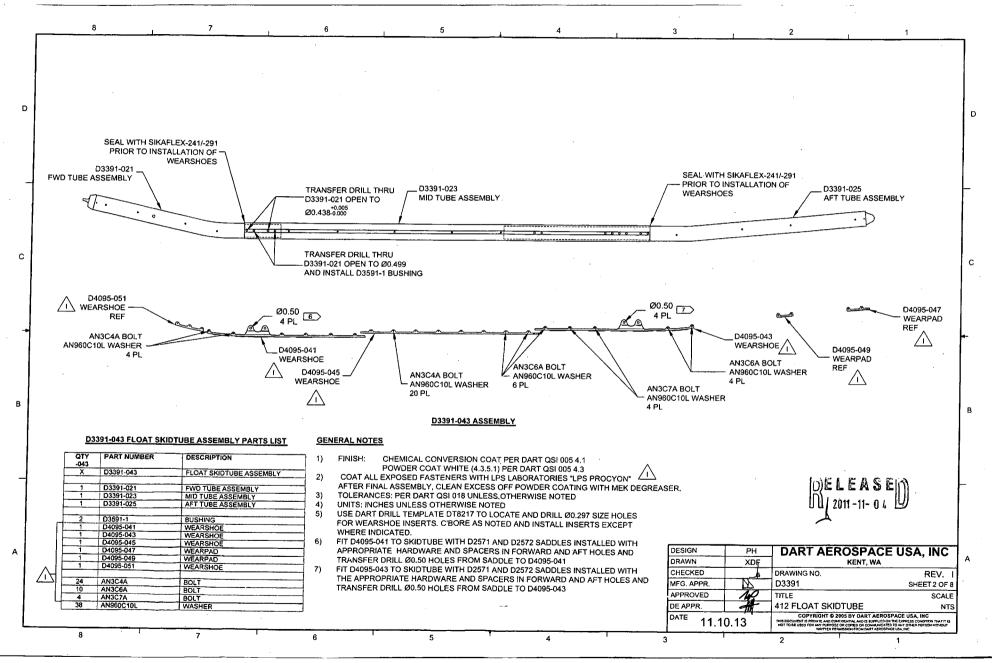
Audited by: Date: 11-11-21

Rev	Date	Change	Revised by	Approved
Α	06.04.24	New Issue P/O D3391-015/-025	KJ/JLM	
В	06.06.19	Dwg revision update	KJ/JLM	
Ç	07.04.20	Ø0.208 dimension remo√ed	KJ/JLM	
D	07.09.06	0.400 dimension remov∈d	KJ/JLM	
E	07.11.23	Dwg Rev. updated	KJ/EC/DD	
F	09.04.27	Dimensions updated per Rev H and NCR09-028	KJ/JLM	
G	09.11.16	Dimension 0.200 removed	KJ 10	11/11
Н	11.06.21	Dimension 44.995 removed	KJ 4	

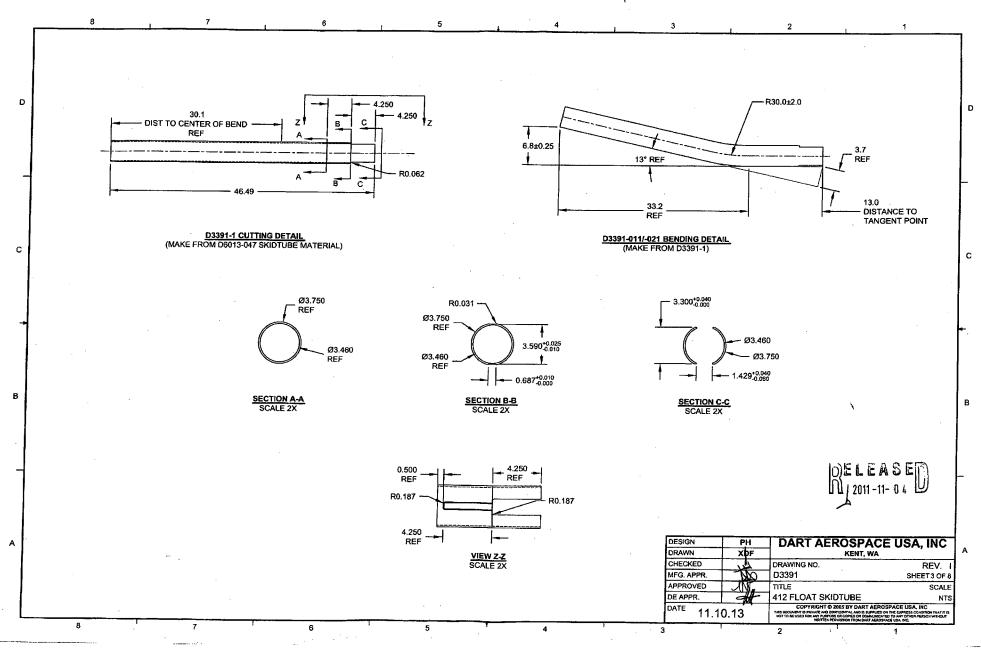




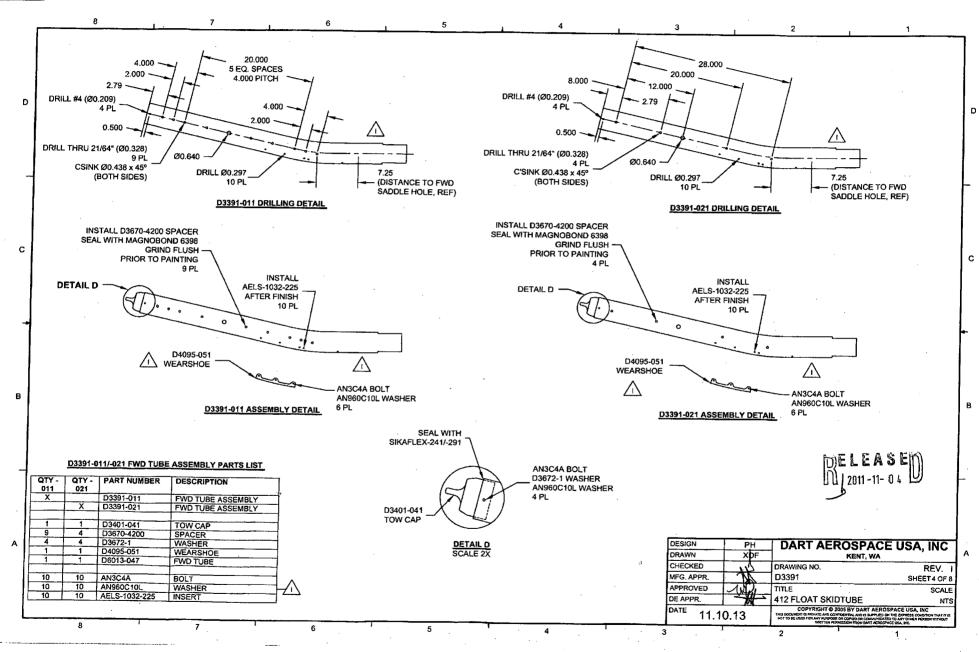
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DATE	STEP	Description of NC	Description of NC Corrective Act		n B	Verific	cation	Approval	Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date		Section C	Chief Eng	QC Inspector
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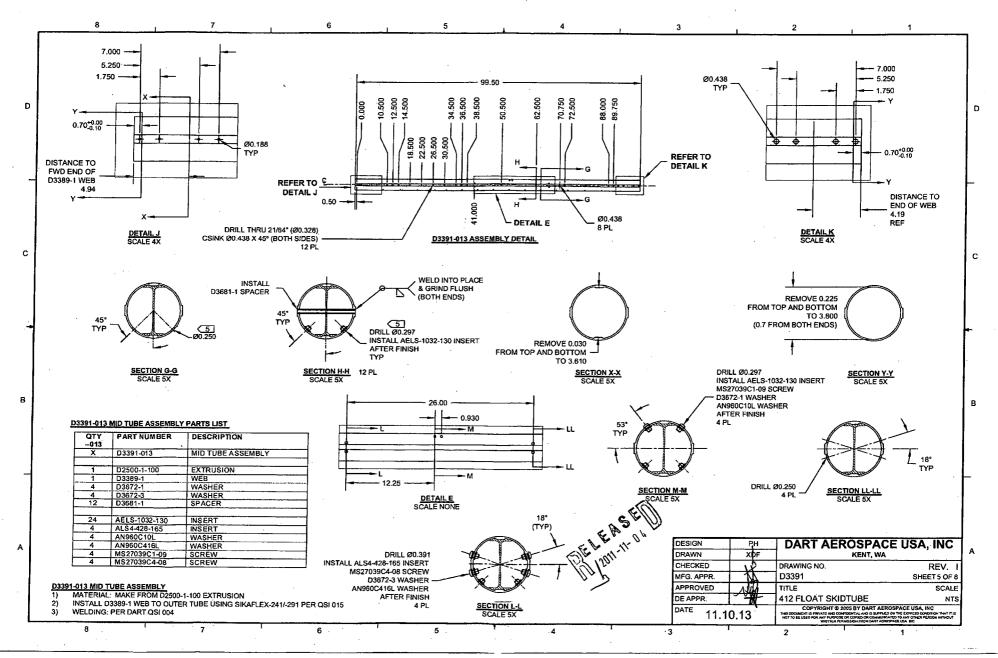


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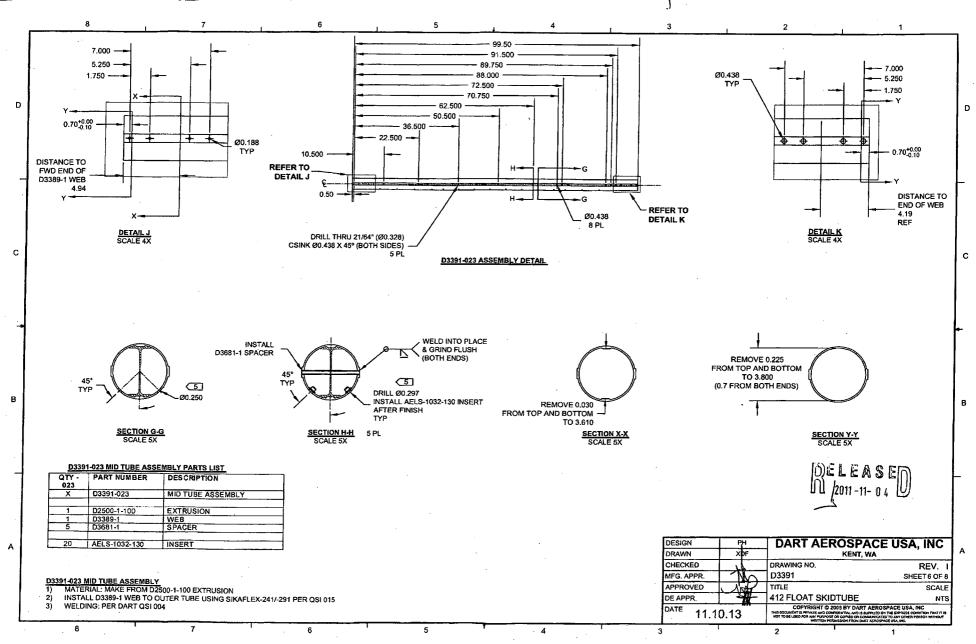
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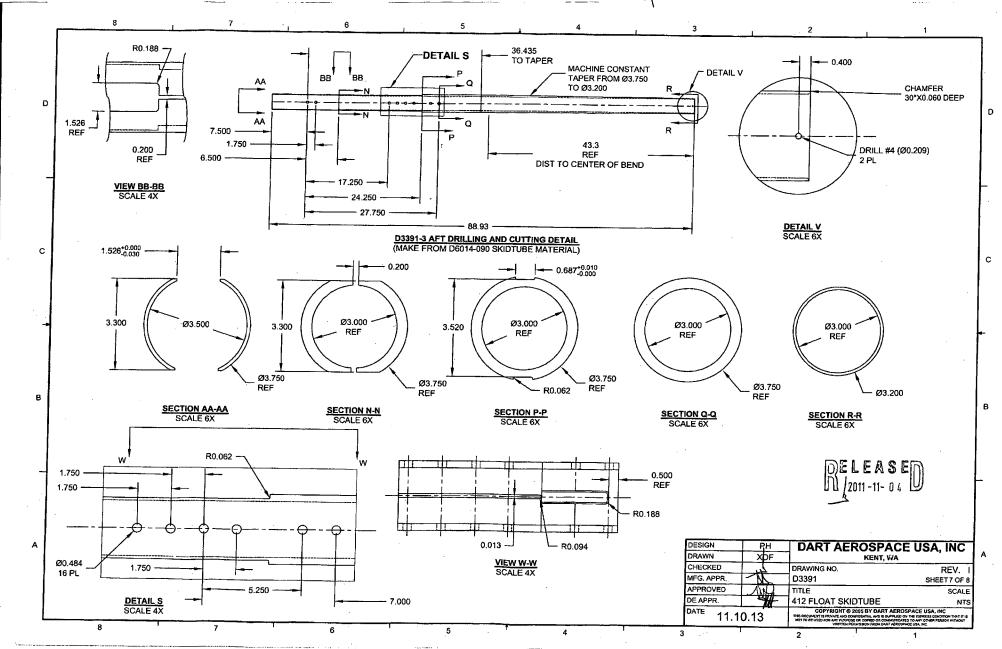


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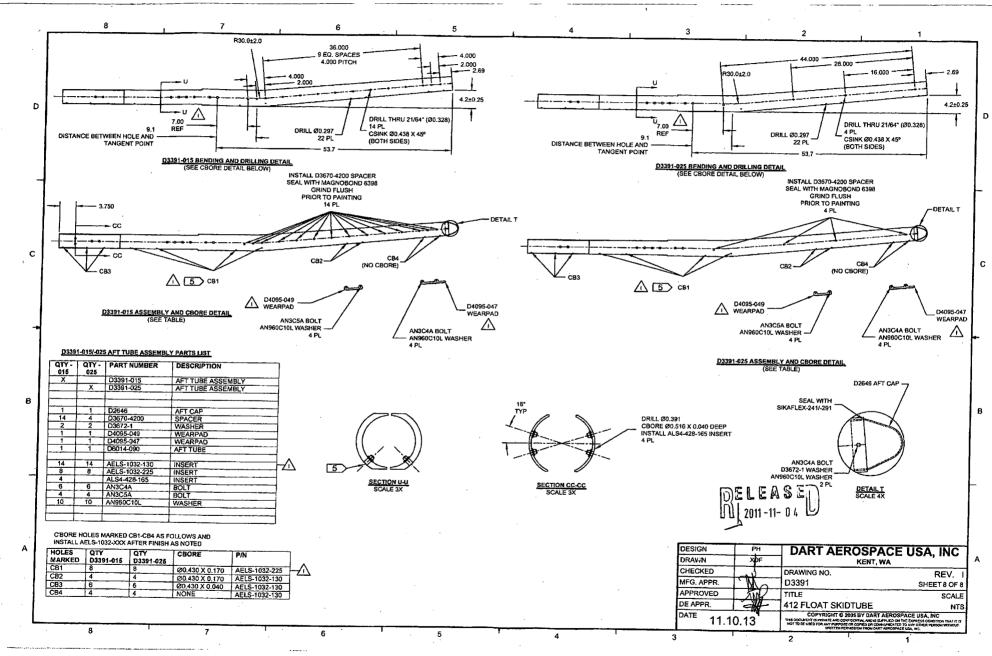


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